PATENT COOPERATION TREATY
PCT

REC'D 16 NOV 2004
WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

17 DEC 2004

Applicant's or agent's file reference Case 21188 International application No. PCT/EP 03/03634		FOR FURTHER ACTION See Preli	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
		International filing date (day/month/year) 08.04.2003	Priority date (day/month/year) 25.06.2002		
Internati A61K7	onal Patent Classification (IPC)	C) or both national classification and IPC			
Applican DSM IF	t P ASSETS B.V et al.				
i. Th Au	nis international preliminary ithority and is transmitted t	examination report has been prepared by to the applicant according to Article 36.	this International Preliminary Examining		
. Th	is REPORT consists of a t	otal of 4 sheets, including this cover sheet.			
	This report is also acco been amended and are (see Rule 70.16 and Se	mpanied by ANNEXES, i.e. sheets of the detailed the three th	escription, claims and/or drawings which have aining rectifications made before this Authority		
The	ese annexes consist of a to		under the PC1).		
		3101 01 3116615.			
	s report contains indication	ns relating to the following items:			
Thi:	s report contains indication Basis of the opinion	ns relating to the following items:			
This	s report contains indication Basis of the opinion Priority	ns relating to the following items:			
Thi: ! !!	s report contains indication Basis of the opinion Priority Non-establishmen	ns relating to the following items: on t of opinion with regard to novelty, inventive	step and industrial applicability		
This I II III IV	s report contains indication Basis of the opinion Priority Non-establishment Lack of unity of inv	ns relating to the following items: on t of opinion with regard to novelty, inventive rention			
Thi: ! !!	s report contains indication Basis of the opinion Priority Non-establishment Lack of unity of involution Reasoned statement	ns relating to the following items: It of opinion with regard to novelty, inventive rention In the following items:	step and industrial applicability elty, inventive step or industrial applicability;		
This I II III IV	s report contains indication Basis of the opinion Priority Non-establishment Lack of unity of involution Reasoned statement	ns relating to the following items: It of opinion with regard to novelty, inventive rention ent under Rule 66.2(a)(ii) with regard to novel to now nations supporting such statement			
This II III IV V	s report contains indication Basis of the opinion Priority Non-establishment Lack of unity of inventions and explain contains and explain comments	ns relating to the following items: t of opinion with regard to novelty, inventive rention ent under Rule 66.2(a)(ii) with regard to nove nations supporting such statement is cited			
This II IV V	s report contains indication Basis of the opinion Priority Non-establishment Lack of unity of inv Reasoned statement citations and explain Certain documents Certain defects in the	ns relating to the following items: It of opinion with regard to novelty, inventive rention ent under Rule 66.2(a)(ii) with regard to novel to now nations supporting such statement			
This I II IV V VI VII VIII	s report contains indication Basis of the opinion Priority Non-establishment Lack of unity of investations and explain documents Certain defects in the Certain observation	ns relating to the following items: It of opinion with regard to novelty, inventive rention ent under Rule 66.2(a)(ii) with regard to noven nations supporting such statement is cited.			
This I II IV V VI VII VIII	s report contains indication Basis of the opinion Priority Non-establishment Lack of unity of inv Reasoned statement citations and explain Certain documents Certain defects in the	ns relating to the following items: It of opinion with regard to novelty, inventive rention ent under Rule 66.2(a)(ii) with regard to noven nations supporting such statement is cited.	elty, inventive step or industrial applicability;		
This I II IV V VI VII VIII	s report contains indication Basis of the opinion Priority Non-establishment Lack of unity of inv Reasoned statemed citations and explain documents Certain documents Certain defects in the Certain observation mission of the demand	ns relating to the following items: t of opinion with regard to novelty, inventive rention ent under Rule 66.2(a)(ii) with regard to noven nations supporting such statement is cited to international application as on the international application	elty, inventive step or industrial applicability;		
This I II IV V VI VIII VIII te of sub	Basis of the opinion Priority Non-establishment Lack of unity of inv Reasoned statement citations and explain documents Certain documents Certain defects in the Certain observation Certain observation mission of the demand	ns relating to the following items: It of opinion with regard to novelty, inventive rention ent under Rule 66.2(a)(ii) with regard to novenations supporting such statement cited the international application as on the international application Date of completic 12.11.2004	elty, inventive step or industrial applicability;		
This I II IV V VI VIII VIII te of sub	Basis of the opinion Priority Non-establishment Lack of unity of inv Reasoned statemed citations and explations and explations and explations are certain defects in the Certain observation Certain Certain Observation Certain Certain Observation Certain Certa	ns relating to the following items: It of opinion with regard to novelty, inventive rention ent under Rule 66.2(a)(ii) with regard to novenations supporting such statement is cited the international application as on the international application Date of completic 12.11.2004	elty, inventive step or industrial applicability;		
This I II IV V VI VIII VIII te of sub	Basis of the opinion Priority Non-establishment Lack of unity of inv Reasoned statement citations and explain Certain documents Certain defects in the Certain observation Mission of the demand O4 nailing address of the internate examining authority:	ns relating to the following items: It of opinion with regard to novelty, inventive rention In the international application In the international application application In the international application applica	elty, inventive step or industrial applicability; on of this report		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/03634

L	Basis	of the	report
		OI HIG	1 CNO1 L

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	Description, Pages						
	1-2	7	as originally filed					
	Cla	Claims, Numbers						
	1-19	9	as originally filed					
2.		th regard to the language, all the elements marked above were available or furnished to this Authority guage in which the international application was filed, unless otherwise indicated under this item.						
	The	ese elements were available or furnished to this Authority in the following language: , which is:						
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).					
3.		With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inte	rnational application in written form.					
		filed together with th	ed together with the international application in computer readable form.					
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
1.	The	ne amendments have resulted in the cancellation of:						
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.			n established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this					
3.	Add	litional observations,	if necessary:					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/03634

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)
Yes: Claims 1-19
No: Claims

Inventive step (IS)
Yes: Claims 1-19
No: Claims

Industrial applicability (IA)
Yes: Claims 1-19

No:

Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP 03/03634

3 is

(V)

Having regard to the International Search Report as well as the prior art cited by the Applicant in the description the subject-matter claimed differs from document (D1) Nonlinear Optics, 1999, vol.20, p.73-86;

(D2) EP-A-832641; (D3) EP-A-921126

wherein similar 2-(hetero-)aryl, mainly 2-benzyl substituted benzoxazoles are disclosed, due to the present 2-benzylidene-malonic acid group.

The requirements of Art.33(2) PCT appear to be fulfilled.

The problem underlying the present invention appears to be the provision of novel UV-A sunscreens with good photostability and/or good liposolubility having the formula (II), according to Claims 8-11, monomers and/or intermediates thereof, of formula (I) according to Claims 1-7, as well as use thereof in UV-screening according to Claims 12-19.

Prior art documents (D1)/(D2)/(D3) disclose partly similarly substituted benzoxa-/ benzimidazole compounds useful as UV-A sunscreens.

The present 2-benzylidene-malonic acid substituent group appears to be an unexpected structural variation and the skilled man, starting from prior art (D1) to (D3), would not have expected that the introduction of said novel feature would lead to compounds having similar qualitative properties.

Given the fact that the essential 2-benzylidene-malonic acid substituent groupis present in all W1-3 moieties of formula (II), the requirements of Art.33(3) PCT appear to be fulfilled for the claimed subject-matter, provided that all compounds claimed possess the claimed properties. The per se claimed monomers of formula (I) in Claims 1-7 can be regarded as inventive in combination with the novel and inventive end products of formula (II).

Moreover, it is noted by the IPEA that Claim 19 appears to be redundant.